

CLAIMS:

1. Telecommunication system comprising a transmitting unit and a receiving unit, with at least one unit comprising at least two chains coupled to a processing part, characterized in that said chains are coupled to said processing part via at least one switch for uncorrelating correlated noise in said chains.

5

2. Telecommunication system according to claim 1, characterized in that said switch samples, oversamples or subsamples signals destined for and/or originating from said chains.

10 3. Telecommunication system according to claim 2, characterized in that said switch is further coupled to said processing part for controlling purposes.

4. Telecommunication system according to claim 1, characterized in that said switch comprises a demultiplexer and/or a multiplexer.

15

5. Telecommunication system according to claim 4, characterized in that said chains each comprise an antenna, an amplifier and a mixer, which mixer is coupled via said switch to said processing part comprising a filter, a converter and a processor.

20 6. Telecommunication system according to claim 4, characterized in that said chains each comprise an antenna and an amplifier, which amplifier is coupled via said switch to said processing part comprising a mixer, a filter, a converter and a processor.

25 7. Telecommunication system according to claim 4, characterized in that said chains each comprise an antenna, which antenna is coupled via said switch to said processing part comprising an amplifier, a mixer, a filter, a converter and a processor.

8. Method for exchanging signals in a telecommunication system comprising a transmitting unit and a receiving unit, with at least one unit comprising at least two chains,

characterized in that said method comprises the step of uncorrelating correlated noise in said chains through switching.

9. Transmitting unit comprising at least two transmitting chains coupled to a
5 transmitting processing part, characterized in that said transmitting chains are coupled to said transmitting processing part via at least one switch for uncorrelating correlated noise in said transmitting chains.

10. Receiving unit comprising at least two receiving chains coupled to a receiving
10 processing part, characterized in that said receiving chains are coupled to said receiving processing part via at least one switch for uncorrelating correlated noise in said receiving chains.

11. Transmitting method for uncorrelating correlated noise in transmitting chains
15 of a transmitting unit comprising said transmitting chains, characterized in that said transmitting method comprises the step of switching said transmitting chains for uncorrelating correlated noise in said transmitting chains.

12. Receiving method for uncorrelating correlated noise in receiving chains of a
20 receiving unit comprising said receiving chains, characterized in that said receiving method comprises the step of switching said receiving chains for uncorrelating correlated noise in said receiving chains.